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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/889,075	09/09/2002	David G: Atkins	ATKINS1	6813	
1444 7:	590 09/23/2005		EXAMINER		
	ND NEIMARK, P.L.L.	SCHULTZ, JAMES			
624 NINTH ST SUITE 300	TREET, NW	ART UNIT	PAPER NUMBER		
WASHINGTON, DC 20001-5303			1635		
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DATE MAILED: 09/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary		Appl	ication No.	7	Applicant(s)				
		09/889,075		,	ATKINS ET AL.				
		Exan	niner	1	Art Unit				
		ı	Schultz, Ph.D.	L	1635				
Period fo	The MAILING DATE of this communication apports.	oears o	n the cover sheet w	ith the co	rrespondence ad	ddress			
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period or to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In y within th will apply , cause th	no event, however, may a ne statutory minimum of thin and will expire SIX (6) MON ne application to become Al	reply be timel rty (30) days w NTHS from the BANDONED	y filed vill be considered time e mailing date of this o (35 U.S.C. § 133).				
Status									
2a)	Responsive to communication(s) filed on <u>17 March 2005</u> . This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
5) 6) 7)	Claim(s) <u>1-19</u> is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) <u>1-19</u> are subject to restriction and/or expressions.	wn fror							
Applicat	ion Papers								
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted of drawing tion is re	equired if the drawing	nce. See 3 g(s) is objec	37 CFR 1.85(a). cted to. See 37 C	` '			
Priority (ınder 35 U.S.C. § 119								
a)(Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau See the attached detailed Office action for a list	s have s have rity doo u (PCT	e been received. e been received in Accuments have been Rule 17.2(a)).	Application	n No in this National	Stage			
Attachmen	t(s) e of References Cited (PTO-892)		4) 🔲 Interview S	Summary (F	PTO-413)				
2) 🔲 Notic 3) 🔲 Infor	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		Paper No((s)/Mail Date Informal Pat	ent Application (PT	O-152)			

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DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group 1, claim(s) 1-4, and 8-19, in part, drawn to a DNAzyme which targets the GU cleavage site of nucleotides 198-199 of SEQ ID NO: 1.

Group 2, claim(s) 1-4, and 8-19, in part, drawn to a DNAzyme which targets the GU cleavage site of nucleotides 200-201 of SEQ ID NO: 1.

Group 3, claim(s) 1-4 and 8-19, in part, drawn to a DNAzyme which targets the GU cleavage site of nucleotides 264-265 of SEQ ID NO: 1.

Group 4, claim(s) 1-5, and 8-19, in part, drawn to a DNAzyme which targets the AU cleavage site of nucleotides 271-272 of SEQ ID NO: 1.

Group 5, claim(s) 1-4, and 8-19, in part, drawn to a DNAzyme which targets the AU cleavage site of nucleotides 301-302 of SEQ ID NO: 1.

Group 6, claim(s) 1-4, and 8-19, in part, drawn to a DNAzyme which targets the GU cleavage site of nucleotides 303-304 of SEQ ID NO: 1.

Group 7, claim(s) 1-4, and 8-19, in part, drawn to a DNAzyme which targets the AU cleavage site of nucleotides 316-317 of SEQ ID NO: 1.

Group 8, claim(s) 1-3, 6, and 8-19, in part, drawn to a DNAzyme of SEO ID NO: 3.

Group 9, claim(s) 1-3, 6, and 8-19, in part, drawn to a DNAzyme of SEQ ID NO: 4.

Group 10, claim(s) 1-3, 6, and 8-19, in part, drawn to a DNAzyme of SEO ID NO: 5.

Group 11, claim(s) 1-3, and 6-19, in part, drawn to a DNAzyme of SEQ ID NO: 6.

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Group 12, claim(s) 1-3, 6, and 8-19, in part, drawn to a DNAzyme of SEQ ID NO: 7.

Group 13, claim(s) 1-3, 6, and 8-19, in part, drawn to a DNAzyme of SEQ ID NO: 8.

Group 14, claim(s) 1-3, 6, and 8-19, in part, drawn to a DNAzyme of SEQ ID NO: 9.

Group 15, claim(s) 1-3, 6, and 8-19, in part, drawn to a DNAzyme of SEQ ID NO: 10.

This international searching authority considers that the international application does not comply with the requirements of unity of invention (Rules 13.1, 13.2, and 13.3) for the reasons indicated below:

According to the guidelines in Section (f)(i)(a) of Annex B of the PCT Administrative Instructions, the special technical feature as defined by PCT Rule 13.2 shall be considered to be met when all the alternatives of a Markush-group are of similar nature. For chemical alternatives, such as the claimed sequences, the Markush group shall be regarded as being of similar nature when

- (A) all alternatives have a common property or activity and
- (B)(1) a common structure is present, i.e, a significant structure is shared by all of the alternatives or
- (B)(2) in cases where the common structure cannot be the unifying criteria, all alternatives belong to an art recognized class of compounds in the art to which the invention pertains.

The instant sequences are considered to be each separate inventions for the following reasons:

The sequences do not meet the criteria of (B)(1), as they do not share, one with another, a significant common structure. Although each sequence contains the same art recognized catalytic core sequence, the primary contribution to the art is the flanking arms which provide the specificity of the instant DNAzymes. Furthermore at these flanking arms are each unique and contain no similarity in their structure when compared one to the other. Accordingly, unity of invention between the antisense flanking sequences is lacking and each sequence claimed is considered to constitute a special technical feature.

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Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Conclusion

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to J. Douglas Schultz, Ph.D. whose telephone number is 571-272-0763. The examiner can normally be reached on 8:00-4:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Wang can be reached at 571-272-0811. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem

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has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

JD Schultz, PhD

J.D. SCHULTZ, Ph.D. PATENT EXAMINER